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IS 11496 (1985): General and performance test requirements of pallet truck and stillage truck [MED 7: Material Handling Systems and Equipment]

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**“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”**

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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*Indian Standard*

## GENERAL AND PERFORMANCE TEST REQUIREMENTS OF PALLET TRUCK AND STILLAGE TRUCK

### **1. Scope**

**1.1** This standard specifies the general and performance test requirements of pallet truck and stillage truck.

### **2. Terminology**

**2.1** For the purpose of this standard, the definitions given in IS : 6839 (Part 1)-1973 'Glossary of terms relating to non-powered materials handling equipment: Part 1 Castors and wheels' and IS : 6839 (Part 2)-1974 'Glossary of terms relating to non-powered materials handling equipment: Part 2 Hand trucks and trolleys' shall apply.

### **3. Dimensions**

**3.1** The basic dimensions and geometry of pallet truck and stillage truck shall be governed by IS : 5007-1969 'Dimensions for pallet trucks' and IS : 5324-1983 'Dimensions for hand-operated stillage trucks [ lifting (hand elevating) trucks ] (*first revision*)' respectively.

### **4. Constructional Requirements**

**4.1** The frame shall be properly fabricated so that the working stresses in all parts are well within the strength limits for materials used.

**4.1.1** The ends of fingers of pallet trucks shall be suitably tapered on width to facilitate easy entry into the pallets or stillages.

**4.2 Wheels** — Selection of wheels shall be subject to agreement between manufacturer and purchaser.

**4.3 Handle** — There shall be provisions for the handle, latched in vertical position for push and pull manoeuvring in confined spaces.

### **5. Workmanship and Finish**

**5.1** The truck shall be free from warp in structural frame work, and other visible defects.

**5.2** The painting shall conform to IS : 5-1978 'Colours for ready mixed paints and enamels (*third revision*)'.

**5.3** The painted surface shall be free from wrinkles, dripping, scratches and irregularities both in colouring and painting.

### **6. Tolerances**

**6.1** The tolerances on lift and on overall dimensions wherever specified shall be as given in IS : 5007-1969 and IS : 5324-1983.

### **7. Performance Test Requirements**

**7.0 General** — When the truck is traversed over a smooth road with the permissible carrying load,

the truck wheels shall turn smoothly and other parts shall function satisfactorily in both raised and lowered positions.

**7.1 Load Test** — Place pallet truck or stillage truck under the pallet or tote box which contains the rated load. Raise the load by operating mechanical leverage or by pumping hydraulic unit of the truck to its maximum height and leave it at the top most position for five minutes. The load shall not come down on its own.

**7.1.1** Repeat the above test with 10 percent over load.

**7.1.2** After the completion of test there shall be no permanent set or distortion in the structure or any member of the structure of the truck.

**7.2 Handle** — The handle shall withstand a minimum horizontal force equal to 230 N plus 2 percent of the rated load, without breaking or permanently bending.

#### **EXPLANATORY NOTE**

This standard covers the general and performance test requirements of pallet trucks and stillage trucks on which flat and box pallets in accordance with the corresponding Indian Standards could be transported without risk or damage.